# Chapter 7

# Download

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## Chapter 7: Download

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# 7.1 Introduction to Download

This chapter contains instructions for using the Download option on the *ISPF/PDF Primary Option Menu* screen. This option allows you to download text files from the NSLDS mainframe to a PC. The Download option also lets you list, browse, edit, delete, rename, or obtain information about the files available for downloading.

When you create data files using a tool such as the Query Management Facility (QMF) or Report Management and Distribution System (RMDS), and select Download as your output destination, the system allows you to download them through the *ISPF/PDF Primary Option Menu* screen (Figure 7–1).

```
------------------  NSLDS - ISPF/PDF PRIMARY OPTION MENU  --------------------
OPTION  ===>

   0  ISPF PARMS   - Specify terminal and user parameters   USERID   - Z@Z
   1  BROWSE       - Display source data or output listings TIME     - 11:34
   6  COMMAND      - Enter TSO Command, CLIST, or REXX exec TERMINAL - 3278
   8  SDSF         - System Display and Search Facility     PF KEYS  - 12
   D  DOWNLOAD     - List data sets for download to PC      DATE     - 98/09/07
   P  PRF          - Platinum Report Facility               JULIAN   - 98.250
   Q  QMF          - Query Management Facility
   R  RMDS         - Report Management and Distribution System
   S  SORT         - Sort facility
   T  TUTORIAL     - Display information about ISPF/PDF
   X  EXIT         - Terminate ISPF using log and list defaults




   Enter END command to terminate ISPF.

```

*Figure 7–1, NSLDS—ISPF/PDF Primary Option Menu*

**Note:** Option **P** (Platinum Report Facility) is no longer available to ED. Use QMF instead.

1. At the Option prompt, type *D* and press **ENTER**. Depending on which terminal emulation software you use, you may need to press **CTRL** whenever instructed to "press **ENTER**" in this section. Check your terminal emulation software documentation or online help to be sure.

2. The *Data Set List Utility* screen displays (Figure 7–2).

```
------------------------- DATA SET LIST UTILITY ----------------------------
OPTION  ===>

  blank – Display data set list *          P  - Print data set list




  DSNAME LEVEL  ===> NSLPC.XXX



* The following line commands will be available when the list is displayed:

B - Browse data set
E - Edit data set
D - Delete data set
R - Rename data set
I - Data set information
S – Information (short)



. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
```

*Figure 7–2, Data Set List Utility Screen*

The top half of this screen contains instructions for displaying or printing the data sets associated with your user ID (represented by 'XXX' in the "DSNAME LEVEL" field in Figure 7–2 and throughout this chapter). The bottom half of the screen contains a list of commands you can use *after* you display the data set list.

Two options are available on this screen:

1.  Leave the screen blank and press **ENTER** to download, list, browse, edit, delete, rename, or obtain information about the data files associated with your user ID.

2.  Type *P* at the Option prompt to print the list of files.

The following sections explain how to use these two options.

## 7.2 The DSLIST Screen

If you press **ENTER** at the Data Set List Utility screen, the system displays the *DSLIST* screen (Figure 7–3).

```
DSLIST - DATA SETS BEGINNING WITH NSLPC.XXX -------------------- ROW 1 OF 36
COMMAND ===>                                              SCROLL ===> PAGE

COMMAND     NAME                                     MESSAGE         VOLUME
--------------------------------------------------------------------------------
          NSLPC.XXX.DISCARD.D97315.T135111                           N9W001
          NSLPC.XXX.EXTP070.D97127.T130021                           N9P032
          NSLPC.XXX.EXTP092.D97111.T113037                           MIGRAT
          NSLPC.XXX.EXTP092.D97114.T143247                           MIGRAT
          NSLPC.XXX.EXTP110.D97114.T163740                           MIGRAT
          NSLPC.XXX.EXTP153.D97111.T120048                           MIGRAT
          NSLPC.XXX.EXTP153.D97114.T155208                           MIGRAT
          NSLPC.XXX.EXTP153.D97132.T064020                           MIGRAT
          NSLPC.XXX.NOIG.Q1                                          N9P010
          NSLPC.XXX.NOIG.Q2                                          N9P028
          NSLPC.XXX.RP.D97112.T143035                                MIGRAT
          NSLPC.XXX.RP.D97254.T131125                                MIGRAT
          NSLPC.XXX.RPDON.D97239.T154633                             MIGRAT
          NSLPC.XXX.RPN010.D97111.T113121                            MIGRAT
          NSLPC.XXX.RPN011.D97111.T113205                            MIGRAT
          NSLPC.XXX.RPN011.D97114.T124147                            MIGRAT
          NSLPC.XXX.RPN012.D97112.T143114                            MIGRAT
          NSLPC.XXX.RPN012.D97114.T125657                            MIGRAT
  . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
```

*Figure 7–3, DSLIST Screen (Partial View)*

The DSLIST screen contains four columns:

- **COMMAND**—contains input fields, one for each line in the NAME list, in which you can enter single-letter commands that allow you to browse, edit, delete, rename, or view information about the associated file. Section 7.2.3 describes these commands.

- **NAME**—displays a list of all the data sets that you are authorized to work with.

- **MESSAGE**—usually empty.

- **VOLUME**—displays the TSO volume number of each data set. Data sets with alpha-numeric volume numbers like 'N9P010' are available for immediate access. Data sets with 'MIGRATED' rather than a volume number have been moved to magnetic tape and must be restored before they can be accessed. Section 7.2.1.3 describes the procedure for restoring migrated data sets.

## 7.2.1 Finding a Data File

Before you can download, edit, delete, or perform any other operation on a data file, you must locate the file in the list presented by the *DSLIST* screen. If the list is short (one screen-full or less) or if the needed file happens to appear at the top of the list, no searching is necessary. If the list contains many names, however, you may have to hunt for the one you need.

### 7.2.1.1 Manual Searching—The Scroll Commands

To search manually, you can use four function keys to scroll the data file list up, down, or sideways until you locate the file you want. These keys are:

- **F7**—Scroll up
- **F8**—Scroll down
- **F10**—Scroll left
- **F11**—Scroll right

These functions also work on the *Browse* and *Edit* screens.

By default, F7 and F8 scroll the list one screen-full at a time. You can change the scroll amount by tabbing to the Scroll field and replacing the default value 'PAGE' with another value. Typing a number in the Scroll field will cause F7 and F8 to scroll the list up or down by that many lines. For example, if you delete 'PAGE' and type *1* (Figure 7–4), scrolling will be one line at a time. You can scroll all the way to the top or bottom of the list by deleting 'PAGE' and typing *M*. If you wish to return to the default page-at-a-time scroll value, simply re-type *PAGE* in the Scroll field.

```
DSLIST - DATA SETS BEGINNING WITH NSLPC.XXX -------------------- ROW 1 OF 36
COMMAND ===>                                             SCROLL ===> 1

COMMAND      NAME                                     MESSAGE        VOLUME
-----------------------------------------------------------------------------
        NSLPC.XXX.DISCARD.D97315.T135111                            N9W001
        NSLPC.XXX.EXTP070.D97127.T130021                            N9P032
        NSLPC.XXX.EXTP092.D97111.T113037                            MIGRAT
        NSLPC.XXX.EXTP092.D97114.T143247                            MIGRAT
        NSLPC.XXX.EXTP110.D97114.T163740                            MIGRAT
        NSLPC.XXX.EXTP153.D97111.T120048                            MIGRAT
        NSLPC.XXX.EXTP153.D97114.T155208                            MIGRAT
        NSLPC.XXX.EXTP153.D97132.T064020                            MIGRAT
        NSLPC.XXX.NOIG.Q1                                           N9P010
        NSLPC.XXX.NOIG.Q2                                           N9P028
        NSLPC.XXX.RP.D97112.T143035                                 MIGRAT
        NSLPC.XXX.RP.D97254.T131125                                 MIGRAT
        NSLPC.XXX.RPDON.D97239.T154633                              MIGRAT
        NSLPC.XXX.RPN010.D97111.T113121                             MIGRAT
        NSLPC.XXX.RPN011.D97111.T113205                             MIGRAT
        NSLPC.XXX.RPN011.D97114.T124147                             MIGRAT
        NSLPC.XXX.RPN012.D97112.T143114                             MIGRAT
        NSLPC.XXX.RPN012.D97114.T125657                             MIGRAT
. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
```

*Figure 7–4, DSLIST Screen (Set to Scroll One Line at a Time)*

## 7.2.1.2 Automatic Searching—The Find Command

The Find command is a general-purpose tool for locating text in a display screen. You can use this command on the *DSLIST* screen and on the *Browse* and *Edit* screens. The following instructions apply to all three screens.

1. Press **TAB** to advance the cursor to the Command line.

2. Type *f,* followed by a space, followed by the text or part of the text you are looking for, and press **ENTER**.

   For example, if you are looking for text that contains the word "DISCARD", type *f*

***discard*** at the Command prompt, and press **ENTER**.

3. The system locates the first occurrence of the text that you entered, and automatically scrolls until that text is on the first line of the screen listing. If the text is found on the same screen the search was started from, the cursor will go to the selected data. An example of a successful search is shown in Figure 7–5. Notice the message, "CHARS 'DISCARD' FOUND", in the upper right hand corner of the screen. If the matching text is not what you need, you can continue the search by pressing **F5** to repeat the 'f' command.

```
DSLIST - DATA SETS BEGINNING WITH NSLPC.XXX ---------------- CHARS'DISCARD'FOUND
 COMMAND ===> f discard                                       SCROLL ===> PAGE

 COMMAND      NAME                                 MESSAGE           VOLUME
 ------------------------------------------------------------------------------
          NSLPC.XXX.DISCARD.D97315.T135111                           N9W001
          NSLPC.XXX.EXTP070.D97127.T130021                           N9P032
          NSLPC.XXX.EXTP092.D97111.T113037                           MIGRAT
          NSLPC.XXX.EXTP092.D97114.T143247                           MIGRAT
          NSLPC.XXX.EXTP110.D97114.T163740                           MIGRAT
          NSLPC.XXX.EXTP153.D97111.T120048                           MIGRAT
          NSLPC.XXX.EXTP153.D97114.T155208                           MIGRAT
          NSLPC.XXX.EXTP153.D97132.T064020                           MIGRAT
          NSLPC.XXX.NOIG.Q1                                          N9P010
          NSLPC.XXX.NOIG.Q2                                          N9P028
          NSLPC.XXX.RP.D97112.T143035                                MIGRAT
          NSLPC.XXX.RP.D97254.T131125                                MIGRAT
          NSLPC.XXX.RPDON.D97239.T154633                             MIGRAT
          NSLPC.XXX.RPN010.D97111.T113121                            MIGRAT
          NSLPC.XXX.RPN011.D97111.T113205                            MIGRAT
          NSLPC.XXX.RPN011.D97114.T124147                            MIGRAT
          NSLPC.XXX.RPN012.D97112.T143114                            MIGRAT
          NSLPC.XXX.RPN012.D97114.T125657                            MIGRAT
 .  .  .    .   .   .   .   .   .   .   .   .   .   .   .   .   .   .   .   .  .  .
```

*Figure 7–5, DSLIST Screen (Example of a Successful Search)*

4. If the automatic search finds no matching text, the *DSLIST* screen displays the "NO CHARS XXXXX FOUND" message (Figure 7–6). If you pressed **F5** (repeat), the message says "BOTTOM OF DATA REACHED."

```
DSLIST - DATA SETS BEGINNING WITH NSLPC.XXX ----------- *NO CHARS 'EXTRA' FOUND*
 COMMAND ===> f extra                                         SCROLL ===> PAGE

 COMMAND      NAME                                 MESSAGE           VOLUME
 ------------------------------------------------------------------------------
          NSLPC.XXX.DISCARD.D97315.T135111                           N9W001
          NSLPC.XXX.EXTP070.D97127.T130021                           N9P032
          NSLPC.XXX.EXTP092.D97111.T113037                           MIGRAT
          NSLPC.XXX.EXTP092.D97114.T143247                           MIGRAT
          NSLPC.XXX.EXTP110.D97114.T163740                           MIGRAT
          NSLPC.XXX.EXTP153.D97111.T120048                           MIGRAT
          NSLPC.XXX.EXTP153.D97114.T155208                           MIGRAT
          NSLPC.XXX.EXTP153.D97132.T064020                           MIGRAT
          NSLPC.XXX.NOIG.Q1                                          N9P010
          NSLPC.XXX.NOIG.Q2                                          N9P028
          NSLPC.XXX.RP.D97112.T143035                                MIGRAT
          NSLPC.XXX.RP.D97254.T131125                                MIGRAT
          NSLPC.XXX.RPDON.D97239.T154633                             MIGRAT
          NSLPC.XXX.RPN010.D97111.T113121                            MIGRAT
          NSLPC.XXX.RPN011.D97111.T113205                            MIGRAT
          NSLPC.XXX.RPN011.D97114.T124147                            MIGRAT
          NSLPC.XXX.RPN012.D97112.T143114                            MIGRAT
          NSLPC.XXX.RPN012.D97114.T125657                            MIGRAT
 .  .  .    .   .   .   .   .   .   .   .   .   .   .   .   .   .   .   .   .  .  .
```

*Figure 7–6, DSLIST Screen (Example of an Unsuccessful Search)*

The basic search described above is sufficient for most purposes. If you want to restrict the search to particular table columns or areas of text, however, you must add the beginning and ending character numbers of the desired range to the Find command. To get these character numbers, you must use the ruler. The ruler shows the number of characters on each screen row. To activate the ruler in a display screen, type ***COLS ON*** at the command prompt and press **ENTER**. The system displays the ruler above the data (Figure 7–7).

```
 BROWSE -- NSLPC.S@B.RPS@B.D98223.T093806 ----------- LINE 00000000 COL 001 080
 COMMAND ===>                                                  SCROLL ===> PAGE
----+----1----+----2----+----3----+----4----+----5----+----6----+----7----+----8
******************************* TOP OF DATA ********************************


  TBNAME              NAME               TBCREATOR   COLNO  COLTYPE    LENGTH
  ------------------  ------------------ ---------   ------ --------   ------  -
  AGG_DESC            ID                 $ED              1 SMALLINT        2
  AGG_DESC_DET        DESC_ID            $ED              2 SMALLINT        2
  AGG_DESC_DET        ID                 $ED              1 SMALLINT        2
  AGG_DESC_ITEM       DESC_DET_ID        $ED              4 SMALLINT        2
  AGG_DESC_ITEM       DESC_ID            $ED              3 SMALLINT        2
  AGG_DESCN           DESC_ID            $ED              3 SMALLINT        2
  AGG_DESCN           ID                 $ED              1 SMALLINT        2
  AGG_PURP            DESC_ID            $ED              3 SMALLINT        2
  AGG_PURP            ID                 $ED              1 SMALLINT        2
  AID_OVRPMT          AID_TYPE           $ED              5 CHAR            2
  AID_OVRPMT          UPDT_USER_ID       $ED              9 CHAR            8
  COLL                ID_STU_SEQ_NO      $ED             11 SMALLINT        2
  FDSLP_SVR_BR_HOL    ID_STU_SEQ_NO      $ED              6 SMALLINT        2
  FINANC_PROF         INCM_TAX_PAID      $ED             10 INTEGER         4
  FS_SBMTL_RUN_ERR    FFEL_DUP_ID        $ED             13 CHAR            1
  GA_AGG              DESC_DET_ID        $ED              6 SMALLINT        2
```

*Figure 7–7, Browse Screen with Active Ruler*

The ruler displays a number every 10 characters. Therefore, "1" on the ruler means 10 characters, "2" means 20 characters, and so on. Between numbers, the "+" symbol occurs every 5 characters. The first "+" is at 5 characters, the second at 15, the third at 25, etc. The "-" symbols stand for individual character positions.

To specify a range of columns to search, use the ruler to measure the character count at the beginning of the search range and at the end of the search range. Then append these two numbers to the basic Find command. For example, to search only the NAME field for the string "ID" in Figure 18–7, type *ƒ ID 23 40* and press **ENTER**.

If the system finds the string within the specified range, it displays the message "CHARS 'XX' FOUND," in the upper right-hand corner of the screen and highlights the first occurrence of the string in red. An example of a successful search in a browse screen is shown in Figure 7–8.

```
 BROWSE -- NSLPC.S@B.RPS@B.D98223.T093806 -------------------- CHARS 'ID' FOUND
 COMMAND ===>                                                  SCROLL ===> PAGE
******************************* TOP OF DATA ********************************


  TBNAME              NAME               TBCREATOR   COLNO  COLTYPE    LENGTH
  ------------------  ------------------ ---------   ------ --------   ------  -
```

```
AGG_DESC               ID                     $ED          1   SMALLINT     2
AGG_DESC_DET           DESC_ID                $ED          2   SMALLINT     2
AGG_DESC_DET           ID                     $ED          1   SMALLINT     2
AGG_DESC_ITEM          DESC_DET_ID            $ED          4   SMALLINT     2
AGG_DESC_ITEM          DESC_ID                $ED          3   SMALLINT     2
AGG_DESCN              DESC_ID                $ED          3   SMALLINT     2
AGG_DESCN              ID                     $ED          1   SMALLINT     2
AGG_PURP               DESC_ID                $ED          3   SMALLINT     2
AGG_PURP               ID                     $ED          1   SMALLINT     2
AID_OVRPMT             AID_TYPE               $ED          5   CHAR         2
AID_OVRPMT             UPDT_USER_ID           $ED          9   CHAR         8
COLL                   ID_STU_SEQ_NO          $ED         11   SMALLINT     2
FDSLP_SVR_BR_HOL       ID_STU_SEQ_NO          $ED          6   SMALLINT     2
FINANC_PROF            INCM_TAX_PAID          $ED         10   INTEGER      4
FS_SBMTL_RUN_ERR       FFEL_DUP_ID            $ED         13   CHAR         1
GA_AGG                 DESC_DET_ID            $ED          6   SMALLINT     2
GA_AGG                 DESC_ID                $ED          7   SMALLINT     2
```

*Figure 7–8, Browse Screen After Successful Find*

You can search for further occurrences of the string by pressing **F5** until you find what you need.

Another useful feature of the Find command is the ability to count the number of occurrences of a given string or file name. To use this feature, simply type the word ***all*** at the end of the Find command. For example, to count the number of occurrences of the string "ID" in the NAME column of Figure 7–7, type *f ID 23 40 all* and press **ENTER**. As in the previous search, the system highlights the first occurrence of the specified string. Instead of the "found" message, however, the system now displays the number of occurrences of the string, followed by the string itself. The results of this search are shown in Figure 7–9.

```
 BROWSE -- NSLPC.S@B.RPS@B.D98223.T093806 -------------------- 76 - CHARS 'ID'
  COMMAND ===>                                                SCROLL ===> PAGE
 ----+----1----+----2----+----3----+----4----+----5----+----6----+----7----+----8
 ****************************** TOP OF DATA ********************************


   TBNAME               NAME                 TBCREATOR   COLNO   COLTYPE    LENGTH
   ------------------   ------------------   ---------   ------  --------   ------  -
   AGG_DESC             ID                   $ED              1  SMALLINT        2
   AGG_DESC_DET         DESC_ID              $ED              2  SMALLINT        2
   AGG_DESC_DET         ID                   $ED              1  SMALLINT        2
   AGG_DESC_ITEM        DESC_DET_ID          $ED              4  SMALLINT        2
   AGG_DESC_ITEM        DESC_ID              $ED              3  SMALLINT        2
   AGG_DESCN            DESC_ID              $ED              3  SMALLINT        2
   AGG_DESCN            ID                   $ED              1  SMALLINT        2
   AGG_PURP             DESC_ID              $ED              3  SMALLINT        2
   AGG_PURP             ID                   $ED              1  SMALLINT        2
   AID_OVRPMT           AID_TYPE             $ED              5  CHAR            2
   AID_OVRPMT           UPDT_USER_ID         $ED              9  CHAR            8
   COLL                 ID_STU_SEQ_NO        $ED             11  SMALLINT        2
   FDSLP_SVR_BR_HOL     ID_STU_SEQ_NO        $ED              6  SMALLINT        2
   FINANC_PROF          INCM_TAX_PAID        $ED             10  INTEGER         4
   FS_SBMTL_RUN_ERR     FFEL_DUP_ID          $ED             13  CHAR            1
   GA_AGG               DESC_DET_ID          $ED              6  SMALLINT        2
```

*Figure 7–9, Search Results Using "All"*

Once again, pressing **F5** will continue the search. If you press **F5**, however, the count message will disappear.

## 7.2.1.3 Migrated Files

In some cases, a file's Volume field may contain the word "MIGRATED" rather than a volume number. The "MIGRATED" entry means that the file has been moved from the mainframe computer to magnetic tape. An operator at the NSLDS Data Center must physically load migrated data onto the computer, so a delay will occur before you can access it.

When you enter a command for a file that has been migrated, you will be prompted to request that the file be restored. The prompt requests input from you in three steps (Figure 7–10). Usually, you'll press **ENTER** twice, then identify a restoration method.

```
ARC 1020I DFSMShsm IS RECALLING FROM DASD DSN=NSLPC.XXX.EXTP070.D97127.T13002
YOU MAY CONVERT THE WAIT FOR RECALL BY PRESSING THE ATTENTION KEY.
FDRW70  ELIGIBLE FOR RECALL – DSN=NSLPC.XXX.EXTP070.D97127.T13002
FDRW71  TYPE 'END' TO BYPASS THE RESTORE OR PRESS 'ENTER' TO CONTINUE

FDRW 76 DATA SET IS SCHEDULED TO BE RESTORED TO VOLUME SERIAL NUMBER MIGRAT
FDRW 77 TYPE NEW VOLUME SERIAL NUMBER AS XXXXXX OR PRESS 'ENTER' TO CONTINUE

FDRW 72 TO RESTORE THE DATA SET IN THE FOREGROUND -- REPLY 'FG'
FDRW 72 TO RESTORE THE DATA SET IN THE BACKGROUND -- REPLY 'BG'
FDRW 72 TO DEFER THE RESTORE VIA THE REMOTE QUEUE -- REPLY 'RQ'
FDRW 73 TYPE THE APPROPRIATE RESPONSE OR 'END' TO TERMINATE THE RESTORE

FDRW78 RESTORE START COMMAND ISSUED – YOU WILL BE NOTIFIED UPON COMPLETION
***
```

*Figure 7–10, Prompt to Restore Migrated Files*

Three restoration methods are available. You can use the one that best suits your timing requirements. The three methods are:

- **FG**—Foreground restoration. Your computer is essentially put on hold until the file is restored.

- **BG**—Background restoration. You may continue to work on other tasks, and will be notified when the data is available. Most people choose BG.

- **RQ**—Restore via remote queue. The selected file or files will be stacked in a job that will not run until you log off TSO.

The notification that your data file has been restored looks something like this:

```
FDR311 FDR RESTORED DSN=NSLPC.XXX.EXTP070.D97127.T13002  ALLOCATED CATALOGED (INTERNAL)
FDR311 ON VOLSER=N9P032 UNIT=3390-3 CN (INTERNAL)
```

*Figure 7–11, Notification That Migrated Files Are Restored*

Once the migrated data set has been restored, you can work with it as with any other file.

If you do not want to restore the file, type the word *END* and press **ENTER** after each question or prompt.

## 7.2.2 Downloading a Data File

To transfer a file from the mainframe computer to your personal computer, first be sure that no other applications (such as QMF) are running. Then follow these steps, which may vary somewhat depending on the communications software you are using:

1. On the *DSLIST* screen, find the file you want to download as instructed in Section 7.2.1.

2. Using your mouse, highlight the desired filename, then select Edit, Copy in the menu of your communications program. If your communications program has a toolbar, you can just click the **COPY** button.

3. Press **F3** twice to exit the Download facility and return to the *ISPF/PDF Primary Option Menu*.

4. On the *ISPF/PDF Primary Option Menu*, type *6,* for the TSOcmd option, and press **ENTER**.

5. The *ISPF Command Shell* screen displays (Figure 7–12).
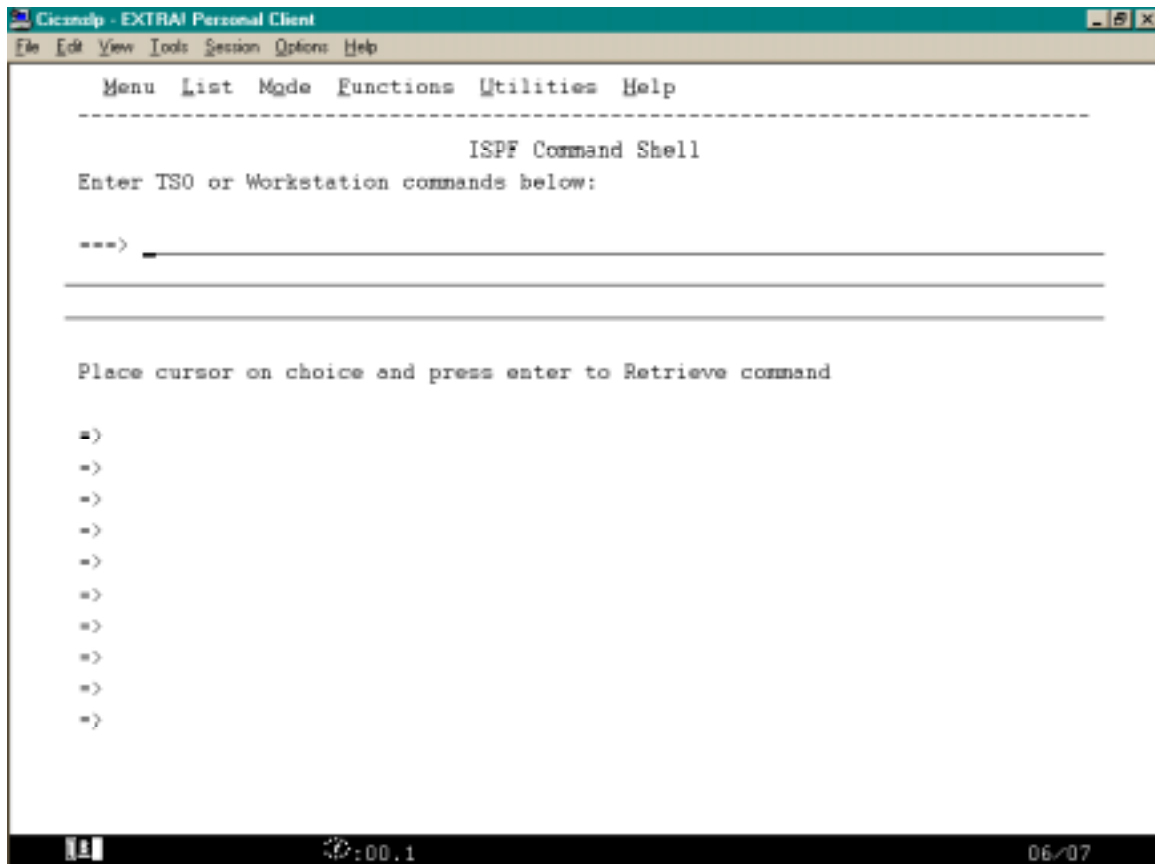
*Figure 7–12, ISPF Command Shell Screen*

6.  Select the Transfer File option from your communications program's menu. Figure 7–13 shows the Transfer option in the Attachmate EXTRA! communications package, where it is called 'Transfer File' and is located on the Tools menu. If you are using different communications software, your Transfer option may have a different name or be located on a different menu.
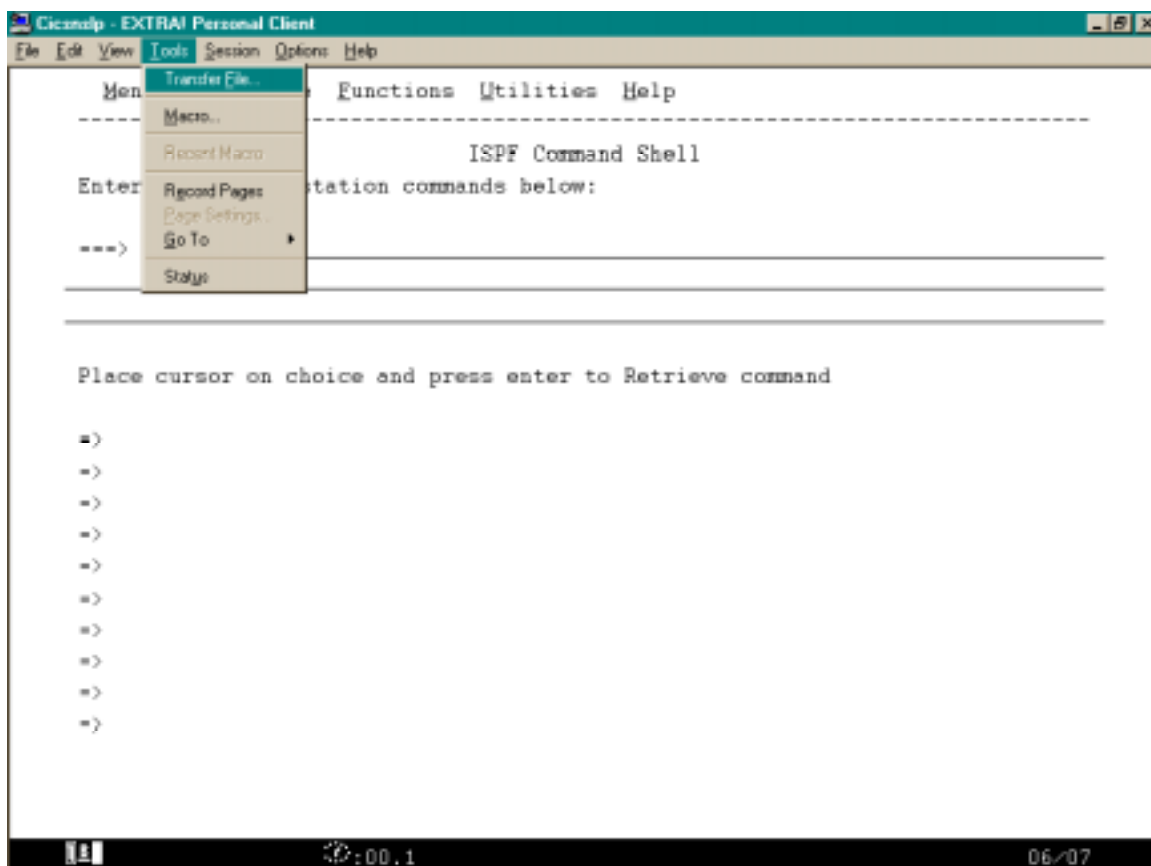
*Figure 7–13, Selecting the Transfer Option*

The Transfer File dialog box should now appear (Figure 7–14).



*Figure 7–14, Transfer File Dialog Box*

7.  Type the file name you want the data set to have on your PC in the PC Filename field. The file should normally be given a .txt extension, so the data will be saved as an ASCII file that can be read by all word processors. Even if you know you will be using MS Word, for example, don't save the file with a .doc extension. It must be saved as .txt, then converted from ASCII as Microsoft Word opens the file.

8.  Click the Receive radio button to designate the transfer direction. Remember that when you are in the Download utility, you are working on the mainframe. Once you select Transfer, you are working on your PC again, and therefore receiving the file from the mainframe, or host.

9.  Type the name of the data set you want to download in the Host File name field. This is the data set name you copied in step 2. Paste it in by placing the cursor inside the Host File Name field and pressing the **CTRL** and **V** keys at the same time. Type a single quotation mark at the beginning of the filename and one at the end. Also, be sure there are no blank spaces anywhere in the data set name or the transfer won't work.

10. Set the Host Type field to TSO and the Scheme field (or Mode field in some software packages) to Text Default.

11. After you have set all the values, click <u>A</u>dd to List and then <u>T</u>ransfer. The program will ask you if you want to save the changes to the transfer list before continuing. If you think you will need to download the same file to the same destination more than once, click <u>Y</u>es. In this case, the program will then ask you to enter a filename for the transfer list. Clicking <u>Y</u>es is not necessary to complete the transfer, however. You can click on <u>N</u>o and the transfer will begin.

12. When the transfer is complete, the Transfer Summary dialog box is displayed (Figure 7–15). If the transfer was successful, a green check mark appears in the Action column and the Comments column should read "File transfer complete." Click the OK button and you will be returned to the *ISPF Command Shell* screen. Press **F3** to exit to the *ISPF/PDF Primary Option Menu* screen.
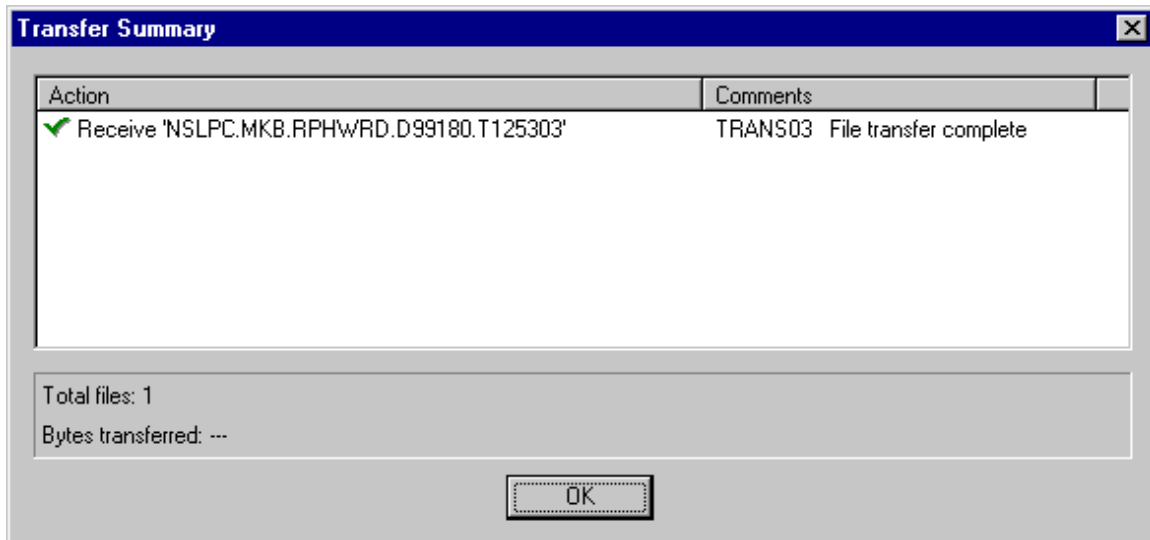


*Figure 7–15, Transfer Summary Dialog Box*

If the transfer was unsuccessful, an error message with a red X appears in the Action column and the Comments field contains an error message. If this occurs, you must repeat steps 6 through 12, correcting the errors, until the transfer succeeds.

**The transferred file can now be loaded in a word processing or spreadsheet program for PCs. Refer to your PC software documentation to learn how to load an ASCII file into it.**

## 7.2.2.1 Download Troubleshooting

If your file transfer fails, check to make sure the file transfer options in your communications program are set up correctly.

If you are using Attachmate, click <u>F</u>ile, <u>P</u>roperties. Then click the Statistics tab. The program should display a panel like the one shown in Figure 7–16.
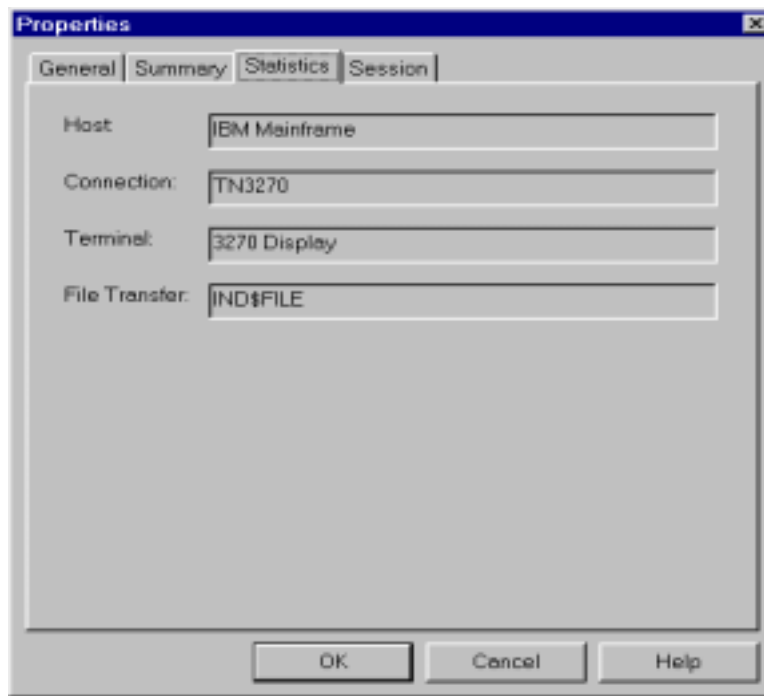


*Figure 7–16, Properties Dialog Box, Statistics Tab*

If the values on your panel differ from those shown here, you will have to create a new communication session. Contact the EDNet LAN Help Desk at (202) 708-5450, press 2 for computer, for assistance. If all values in the Statistics panel are correct, click the OK button.

Next, click <u>E</u>dit, <u>S</u>ettings, highlight the File Transfer category, and click the Advanced tab. The program should display a panel like the one shown in Figure 7–17. Change any settings that differ from those in this figure.
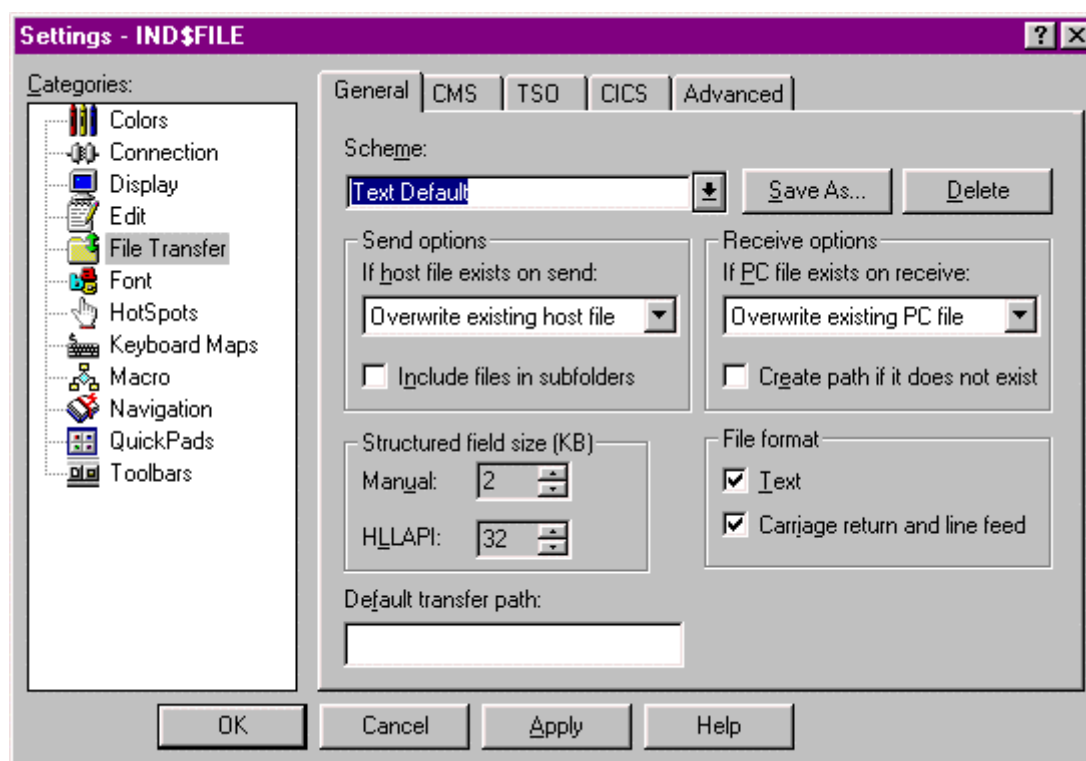
*Figure 7–17, File Transfer Settings Dialog Box*

Finally, click <u>F</u>ile, <u>S</u>ave Session. Now try the download again.

# 7.2.3 Additional Functions of the DSLIST Screen

The Command column contains user entry fields to the left of each data set name. By entering a command in the field next to the name of a data set, you can browse, edit, delete, rename, or view information about the data set. Valid commands are:

- '**B**' to browse the data set
- '**E**' to edit the data set
- '**D**' to delete the data set
- '**R**' to rename the data set
- '**I**' to view information about the data set (long version)
- '**S**' to view information about the data set (short version)

## 7.2.3.1 Browse Data Set

If you type *B* in the Command column to the left of a file name, the file will be displayed on the *Browse* screen (Figure 7–18). Note the screen name in the top left-hand corner. As this command

---

is BROWSE, this indicates that it is in a view-only mode. No changes can be made to this file using this option.

```
 BROWSE -- NSLPC.XXX.RPN014.D97311.T120039 ---------- LINE 00000000 COL 001 080
  COMMAND ===>                                              SCROLL ===> CSR
 ****************************** TOP OF DATA *********************************
 Report ID: MBR004                              U.S. DEPARTMENT OF EDUCATION
 Page No:      1                         NATIONAL STUDENT LOAN DATA SYSTEM (NSL
                                                LENDER ORIGINATION PROFILE
 Report Parameters:  Period Begin: 10/01/95
                     Period End  : 09/30/96
                     Lender Code       : ALL
                     Lender Branch Code: ALL
                     Sort Sequence: LENDER, LOAN TYPE
                              Number            Number
              Lender  Branch   of Loans         of Loans          Percentage
               Code    Code   This Period     Prev Period           Change
              ------  ------  -----------     -----------         -----------
 Total Number of Loans Originated This Period:                        0
 Total Amount of Loans Originated This Period:     $                  0
 Total Number of Loans Originated Percentage Change Over Previous Period:   0.00
 Total Amount of Loans Originated Percentage Change Over Previous Period:   0.00
 End of LENDER ORIGINATION PROFILE
 ****************************** BOTTOM OF DATA ******************************


  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .  .
```

*Figure 7–18, Browse Screen (Partial View)*

Move through the file using the following function keys:

- **F3** = Exit
- **F7** = Scroll backwards (up the list)
- **F8** = Scroll forwards (down the list)
- **F10** = Move to the left
- **F11** = Move to the right

Type an *M* on the Command line at the upper left hand corner, and press **F7**, **F8**, **F10**, or **F11** to move the maximum distance possible in the chosen direction.

Press **F3** to exit this screen.

## 7.2.3.2 Edit Data Set

If you type *E* in the Command column to the left of a file name, the file will be displayed on the *Edit* screen (Figure 7–19). Note the screen name in the top left-hand corner of the screen.

```
EDIT ---- NSLPC.XXX.RPN014.D97311.T120039 -------------------- COLUMNS 001 072
COMMAND ===>                                                    SCROLL ===> CSR
****** **************************** TOP OF DATA *****************************
000001 1Report ID: MBR004                              U.S. DEPARTMENT OF EDU
000002  Page No:        1                         NATIONAL STUDENT LOAN DATA SY
000003 0                                                   LENDER ORIGINATION PRO
000004  Report Parameters:  Period Begin: 10/01/95
000005                      Period End  : 09/30/96
000006                      Lender Code      : ALL
000007                      Lender Branch Code: ALL
000008                      Sort Sequence: LENDER, LOAN TYPE
000009 0                              Number            Number
000010           Lender   Branch   of Loans          of Loans        Percentage
000011            Code     Code   This Period      Prev Period         Change
000012           ------   ------  -----------      -----------      -----------
000013 0Total Number of Loans Originated This Period:                        0
000014  Total Amount of Loans Originated This Period:     $             0
000015  Total Number of Loans Originated Percentage Change Over Previous Period
000016  Total Amount of Loans Originated Percentage Change Over Previous Period
000017 0End of LENDER ORIGINATION PROFILE
****** *************************** BOTTOM OF DATA ***************************


. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
```

*Figure 7–19, Edit Screen (Partial View)*

Edit the records using the standard TSO editing commands. Refer to the TSO Online Help if you need further information about editing a data set.

Move through the file using the following function keys:

- **F3** = Exit
- **F7** = Scroll backwards (up the list)
- **F8** = Scroll forwards (down the list)
- **F10** = Move to the left
- **F11** = Move to the right

Type an *M* on the Command line and press **F7**, **F8**, **F10**, or **F11** to move the maximum distance possible in the chosen direction.

To exit and save your changes, press **F3**. To exit without saving changes, type *CANCEL*.

## 7.2.3.3 Delete Data Set

If you type *D* in the Command column to the left of a file name, the selected file will be displayed on the *Confirm Delete* screen (Figure 7–20).

```
---------------------------  CONFIRM DELETE  ---------------------------------
COMMAND ===>

DATA SET NAME: NSLPC.XXX.RPN014.D97311.T120039
VOLUME:        N9W001
CREATION DATE: 1997/11/11


INSTRUCTIONS:

   Press ENTER key to confirm delete request.
      (The data set will be deleted and uncataloged.)

   Enter END command to cancel delete request.




. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
```

*Figure 7–20, Confirm Delete Screen*

Press **ENTER** to confirm that you wish to delete the listed data file, or type the word *End* on the Command line to cancel the deletion request.

Press **F3** if you want to cancel the delete command.

If the file has been migrated, you can type the word *DELETE* at the Command line without having to recall the file from tape.

## 7.2.3.4 Rename Data Set

If you type *R* in the COMMAND column to the left of a file name, the selected file will be displayed on the *Rename Data Set* screen (Figure 7–21).

```
-------------------------- RENAME DATA SET --------------------------------
COMMAND ===>

DATA SET NAME: NSLPC.XXX.RPN014.D97311.T120039
VOLUME:        N9W001

ENTER NEW NAME BELOW:     (The data set will be recataloged.)

ISPF LIBRARY:
   PROJECT ===>
   GROUP   ===>
   TYPE    ===>

OTHER PARTITIONED OR SEQUENTIAL DATA SET:
   DATA SET NAME  ===> 'NSLPC.XXX.DISCARD.D97315.T135111'




. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
```

*Figure 7–21, Rename Data Set Screen*

Use the Data Set Name field at the bottom of the screen under 'Other Partitioned or Sequential Data Set' to enter the new name for your data file. In Figure 7–21, the data set 'NSLPC.XXX.RPN014.D97311.T120039' has been renamed 'NSLPC.XXX.DISCARD.D97315.T135111'. Press **ENTER** to return to the DSLIST screen.

The section named 'ISPF Library' should not be used.

Press **F3** if you want to cancel the Rename command. You will be returned to the DSLIST Screen.

## 7.2.3.5 Data Set Information (Short Version)

If you type *S* in the Command column to the left of a file name, the selected file will be displayed on the *Data Set Information* screen (Figure 7–22).

```
------------------------- DATA SET INFORMATION  ----------------------------
COMMAND ===>

DATA SET NAME: NSLPC.XXX.RPN014.D97311.T120039

GENERAL DATA:                           CURRENT ALLOCATION:
   Volume serial:        N9P425            Allocated cylinders:       1
   Device type:          3390              Allocated extents:         1
   Organization:         PS
   Record format:        FBA
   Record length:        133
   Block size:           27930          CURRENT UTILIZATION:
   1st extent cylinders: 1                 Used cylinders:            1
   Secondary cylinders:  10                Used extents:              1

   Creation date:        1997/11/07
   Expiration date:      ***NONE***




 . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .
```

*Figure 7–22, Data Set Information Screen (Short Version)*

In addition to the data set's volume number and creation date, this screen displays basic information about the physical organization of the data set and how the data set is stored on the mainframe's storage device. The technical details of this information are beyond the scope of this User's Guide. Consult the TSO Online Help facility for an explanation of each field on this screen.

## 7.2.3.6 Data Set Information (Long Version)

If you type *I* in the Command column to the left of a file name, the selected file will be displayed on the *Data Set Information* screen (Figure 7–23).

```
------------------------- DATA SET INFORMATION  -----------------------------
COMMAND ===>

DATA SET NAME: NSLPC.XXX.RPN014.D97311.T120039

GENERAL DATA:                              CURRENT ALLOCATION:
   Volume serial:        N9T106              Allocated tracks:         435
   Device type:          3390                Allocated extents:          1
   Organization:         PO                  Maximum dir. blocks:       20
   Record format:        F
   Record length:        80
   Block size:           80                CURRENT UTILIZATION:
   1st extent tracks:    435                 Used tracks:              277
   Secondary tracks:     45                  Used extents:               1
                                             Used dir. blocks:           8
   Creation date:        1995/05/11          Number of members:         45
   Expiration date:      ***NONE***
.  .   .   .   .   .   .   .   .   .   .   .   .   .   .   .   .   .   .   .   .   .   .
```

*Figure 7–23, Data Set Information Screen (Long Version)*

This screen displays the same basic information as the short version described in Section 7.2.3.5, and adds the Maximum Dir. Blocks, Used Dir. Blocks, and Number of Members fields. The system may not display this longer version of the *Data Set Information* screen for all files. If the additional fields are not available, they will be left off and the screen will look like the short version.

# 7.3 Printing a Data Set List

If you choose Option P on the *Data Set List Utility* screen (Figure 7–2), the system will create a formatted report of the data set list information which can be viewed in the System Display and Search Facility (SDSF).

## 7.3.1 Setting up the Print Facility

Before you can use the Print facility, you must identify the default values for the process. After you have done this, you will not need to repeat the setup process.

To set up the Print facility:

1. At the *NSLDS ISPF/PDF Primary Option Menu* (Figure 7–1), type *0* (zero), for the ISPF Parms (Specify terminal and user parameters) option, and press **ENTER**.

2.  The *ISPF Settings* screen displays (Figure 7–24).

```
Log/List  Function keys  Colors  Environ  Workstation  Identifier  Help

                           ISPF Settings
Command ===>
                                                      More:     +
Options                              Print Graphics
Enter "/" to select option            Family printer type 2
_ Command line at bottom              Device name . . . .
/ Panel display CUA mode              Aspect ratio  . . . 0
_ Long message in pop-up
/ Tab to action bar choices
_ Tab to point-and-shoot fields       General
/ Restore TEST/TRACE options          Input field pad . . N
_ Session Manager mode                Command delimiter . ;
/ Jump from leader dots
_ Edit PRINTDS Command
/ Always show split line
_ Enable EURO sign

Terminal Characteristics
Screen format  1 1. Data   2. Std    3. Max    4. Part

 F1=Help      F2=Split    F3=Exit      F7=Backward  F8=Forward   F9=Swap
 F10=Actions  F12=Cancel
```

*Figure 7–24, ISPF Settings Screen*

3.  Press **F10** to place your cursor in the action bar and press **ENTER**. The *Log/List* panel
    displays (Figure 7–25).

```
__ 1. Log Data set defaults
   2. List Data set defaults
   3. List Data set characteristics
   4. JCL...
```

*Figure 7–25, Log/List Panel*

4.  Type *1* on the selection line in the panel. Press **ENTER**. The *Log Data Set Default
    Options* panel displays (Figure 7–26).

```
ISPF Settings
                        Log Data Set Defaults
                                                More:     +
  Process option . . . 1  1. Print data set and delete
                          2. Delete data set (without printing)
                          3. Keep data set (append subsequent
                             information to same data set)
                          4. Keep data set and allocate new data
                             set
  SYSOUT class . . . . . . ISPF Settings
  Local printer ID or
  writer-name  . . . . . .
  Lines per page . . . . .
  Primary pages  . . . . . List
  Secondary pages  . . . .
  Log Message ID . . . . .   (/ = Yes)
   F1=Help      F2=Split    F3=Exit      F7=Backward  F8=Forward
   F9=Swap      F12=Cancel
```

*Figure 7–26, Log Data Set Defaults Panel*

5. Complete as shown in Figure 7–26 and then press **F3** to exit and save selections.

6. Press **F10** to place your cursor in the action bar and press **ENTER**. The *Log/List* panel displays (Figure 7–25) once more.

7. Type *2* and press *ENTER*. The *Log Data Set Defaults* Panel displays.

```
 ISPF Settings
                           Log Data Set Defaults
                                                      More:     +
    Process option . . .    1. Print data set and delete
                            2. Delete data set (without printing)
                            3. Keep data set (append subsequent
                               information to same data set)
                            4. Keep data set and allocate new data
                               set
    SYSOUT class . . . . . . ISPF Settings
    Local printer ID or
    writer-name  . . . . . .
    Lines per page . . . . .
    Primary pages  . . . . . List
    Secondary pages  . . . .
    Log Message ID . . . . .  (/ = Yes)
     F1=Help      F2=Split     F3=Exit      F7=Backward  F8=Forward
     F9=Swap     F12=Cancel
```

*Figure 7–27, Log Data Set Defaults Panel*

8. Complete as shown in Figure 7–27 and then press **F3** to exit and save selections.

9. Press **F10** to place your cursor in the action bar and press **ENTER**. The *Log/List* Panel displays (Figure 7–25) once more. Type *4* and press *ENTER*. The *Log and List JCL* Panel displays (Figure 7–28).

```
 ISPF Settings
                            Log and List JCL

   Job statement information:        (Required for system printer)
   //USERID   JOB  (ACCOUNT),'NAME'
   //*
   //*
   //*

    F1=Help      F2=Split     F3=Exit      F9=Swap     F12=Cancel
```

*Figure 7–28, Log and List JCL Panel*

In this illustration, the unique three-character user ID assigned to each NSLDS user is replaced with the word **USERID** rather than with the three Xs used in previous illustrations. Where Figure 7–28 shows in the Job Statement Information section the word **USERID**, be sure to type your actual user ID.

10. Press **F3** to exit this screen, and return to the *ISPF/PDF Primary Option Menu*. Now that the defaults have been set, you can use the Print option.

## 7.3.2 Using the Print Option

1.  From the *Data Set List Utility* screen (Figure 7–2), type *P* at the Option prompt and press **ENTER**. The following message displays: 'Data set list printed'.

2.  Press the **F3** key to exit the *Data Set List Utility* screen. Press **F3** again to log off TSO.

3.  The *Specify Disposition of List Data Set* screen will be displayed (Figure 7–29).

```
Specify Disposition of List Data Set
Command ===>
                                                          More:     +
Log Data Set options not available

List Data Set Disposition
  Process option  . . .  1  1. Print data set and delete
                            2. Delete data set without printing
                            3. Keep data set - Same
                               (allocate same data set in next session)
                            4. Keep data set - New
                               (allocate new data set in next session)
  SYSOUT class  . . . . A
  Local printer ID
  or writer-name  . . .

Press ENTER key to complete ISPF termination.
Enter END command to return to the primary option menu.
```

*Figure 7–29, Specify Disposition of List Data Set Screen*

> **NOTE:** Your screen may show different values (or no values) in the "Log Options for This Session" and "List Options for This Session" sections, depending on the tasks you performed before exiting.

4.  Press **ENTER,** and you will automatically be logged off or press **F3** to return to your session.

## 7.3.2.1 Seeing Your Report

1.  From the *ISPF/PDF Primary Option Menu* (Figure 7–1), type *8*, for the System Display and Search Facility (SDSF) option.

2.  The *SDSF Primary Option Menu* displays (Figure 7–32).

```
 Display  Filter  View  Print  Options  Help
 -------------------------------------------------------------------------
 -
 HQX1900----------------- SDSF PRIMARY OPTION MENU ------------------------
 -
 COMMAND INPUT ===>                                     SCROLL ===> PAGE

      LOG        - Display the system log
      DA         - Display active users in the sysplex
      I          - Display jobs in the JES2 input queue
      O          - Display jobs in the JES2 output queue
      H          - Display jobs in the JES2 held output queue
      ST         - Display status of jobs in the JES2 queues
      PR         - Display JES2 printers on this system
      INIT       - Display JES2 initiators on this system
      ULOG       - Display user session log
      END        - Exit SDSF

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      disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

   F1=HELP      F2=SPLIT     F3=END      F4=RETURN    F5=IFIND     F6=BOOK
    F7=UP        F8=DOWN      F9=SWAP     F10=LEFT     F11=RIGHT    F12=RETRIEVE
```

*Figure 7–30, SDSF Primary Options Menu*

3. Type **ST**, for the Display status of jobs in the JES2 queues option, in the Command Input line at the top left corner of the screen.

4. The jobs will be listed on the *SDSF Status Display* screen (Figure 7–23). The screen may differ from the one shown in Figure 7–23, depending on which jobs you executed.

   Notice that the JOBNAME consists of your user ID, followed by a single alphabetical character which automatically increments each time you make a print request. QMF batch jobs are identified with a 'Q'.

5. Select the desired print job by typing an **S** to the left of it (Figure 7–31).

```
 Display  Filter  View  Print  Options  Help
 --------------------------------------------------------------------------
 SDSF STATUS DISPLAY ALL CLASSES                         LINE 1-16 (17)
 COMMAND INPUT ===>                                      SCROLL ===> PAGE
 PREFIX=SZP*  DEST=(ALL)   OWNER=CZT
 NP    JOBNAME  JOBID    OWNER    PRTY QUEUE      C  POS  SAFF  ASYS STATUS
       XXX      TSU18396 XXX        15 EXECUTION         NSLP  NSLP
       XXXCEFCT JOB10432 XXX         1 PRINT      J  1008
       XXXCEFCT JOB12372 XXX         1 PRINT      J  1718
       XXXCEFCT JOB12707 XXX         1 PRINT      J  1939
       XXXRC7KA JOB13413 XXX         1 PRINT      J  2343
       XXXCEFCT JOB14017 XXX         1 PRINT      J  2748
       XXXP186A JOB15225 XXX         1 PRINT      J  3397
       XXXRC71A JOB15227 XXX         1 PRINT      J  3399
       XXXWB71A JOB15229 XXX         1 PRINT      J  3400
       XXXPRINT JOB15658 XXX         1 PRINT      J  3632
       R#CCART  JOB16629 XXX         1 PRINT      A  4265
       XXXRB59T JOB17662 XXX         1 PRINT      J  5024
       XXXRB59A JOB17669 XXX         1 PRINT      J  5026
       XXXP790A JOB17752 XXX         1 PRINT      J  5081
       XXXP174A JOB17898 XXX         1 PRINT      J  5190
       XXXP175A JOB17901 XXX         1 PRINT      J  5193
   F1=HELP      F2=SPLIT     F3=END      F4=RETURN    F5=IFIND     F6=BOOK
    F7=UP        F8=DOWN      F9=SWAP     F10=LEFT     F11=RIGHT    F12=RETRIEVE
```

*Figure 7–31, Status Display Screen (Partial View)*

6. The *SDSF Output Display* screen displays (Figure 7–32).

```
 SDSF OUTPUT DISPLAY XXXB      JOB07063  DSID   101 LINE 0       COLUMNS 02- 81
 COMMAND INPUT ===>                                      SCROLL ===> PAGE
******************************* TOP OF DATA *********************************
 LISTING OF DATA SETS BEGINNING WITH NSLPC.XXX



    DATA SET NAME                                 VOLUME  ORG   RECFM    LRECL
 ------------------------------------------------------------------------
 NSLPC.XXX.EXTP070.D97127.T130021                N9P032  PS    FB        372
 NSLPC.XXX.EXTP092.D97111.T113037                MIGRAT
 NSLPC.XXX.EXTP092.D97114.T143247                MIGRAT
 NSLPC.XXX.EXTP110.D97114.T163740                MIGRAT

 NSLPC.XXX.EXTP153.D97111.T120048                MIGRAT
 NSLPC.XXX.EXTP153.D97114.T155208                MIGRAT
 NSLPC.XXX.EXTP153.D97132.T064020                MIGRAT
 NSLPC.XXX.NOIG.Q1                               N9P010  PS    FBA       341

 NSLPC.XXX.NOIG.Q2                               N9P028  PS    FBA       341
 NSLPC.XXX.RP.D97112.T143035                     MIGRAT
 NSLPC.XXX.RP.D97254.T131125                     MIGRAT
 NSLPC.XXX.RPDON.D97239.T154633                  MIGRAT
```

*Figure 7–32, SDSF Output Display Screen (Partial View)*

7. Use standard TSO commands to work with the jobs, if you wish.